

## 2016학년도 1학기 강의정보

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교과목명	하폐수 공학 및 설계1		교강사명		배성준		
학점	3		수강대상 학년		3학년		
교재명	Forth edition – Wastewater Engineering	구 분	주교재	저 자	METCALF & EDDY	출 판 사	McGraw-Hill Education
교재명	Unit Operations and Processes in Environmental E	구 분	부교재	저 자	Tom D. Reynolds and Paul Richards	출 판 사	CL - Engineering
교재명	Environmental Engineering	구 분	부교재	저 자	H.S. Peavy, D.R. Rowe, G. Tchobanoglo us	출 판 사	McGraw-Hill Book Co.
강의목표	<p>스스로 학습활동에 대한 원칙과 계획을 세우고 체계적으로 실천할 수 있다.</p> <p>다양한 정보와 지식을 이해하고 문제를 규명하며 분석·추론하여 이를 바탕으로 문제 해결에 적용할 수 있다.</p>						
교과목 해설	<p>The course covers theory and application of physical unit operations and chemical unit processes for municipal and industrial wastewater treatment. Also includes fundamentals of biological treatment and basic microbial growth kinetics. Provides practical capability to perform process design and operation, emphasizing a sense of engineering through developing engineer's ability to think and offering various kinds of related practices. Practical exercises can improve comprehensive problem-solving capability and executive ability indispensable to engineers as well as provide professional knowledge.</p> <p>Recommended prerequisites: Biology, Environmental System Engineering, Environmental Fluid Mechanics &amp; Laboratory, Water Chemistry &amp; Laboratory, Environmental Microbiology &amp; Laboratory, and Planning, design, &amp; management of water and wastewater system.</p>						

<b>강의진행 방법</b>	<p>Course description: This course deals with discussion of wastewater quality constituents and introduction of the design and operation of wastewater treatment process, especially focusing on physical and chemical unit operations. Class hours: Tues. 09:00-10:30 (A404), Thur. 13:30-15:00 (B567)</p> <p>Course Objectives:</p> <ol style="list-style-type: none"><li>1 Develop fundamental skills to understand, describe, and design common water unit processes in wastewater treatment.</li><li>2 Improve students' scientific and engineering minds and communication skills which are needed in the field of environmental engineering.</li><li>3 To discuss current status of federal and state legislation which governs the installation, expansion, and upgrading of wastewater engineering projects.</li></ol>
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